

3,4-Dichlorobenzotrifluoride [328-84-7]

Results of Testing

Chemical Name	CAS No.	Study Code/Type	Protocol/Guideline	Species	Exposure	Dose/Concentration	No. per Group	Results	Reference
3,4-Dichlorobenzotrifluoride	328-84-7	EEATOX Acute fish toxicity	40 CFR 797.1400	Rainbow trout	96 hr, flow-through	0.34, 0.52, 0.83, 1.4, 3.4 mg/L (mean, measured)	20 (10/replicate)	100% mortality was noted at the high-concentration; the no-observed effect concentration was 0.52 mg/L. The 96-hour LC ₅₀ was 1.9 (1.4-3.4) mg/L.	53 FR 28909; 8/1/88, OTS0526811
3,4-Dichlorobenzotrifluoride	328-84-7	EEATOX Acute fish toxicity	40 CFR 797.1400	Fathead minnow	96 hr, flow-through	0.60, 0.90, 1.5, 2.2, 3.5 mg/L (mean, measured)	20 (10/replicate)	100% mortality was noted at the high-concentration; the no-observed effect concentration was <0.60 mg/L. The 96-hour LC ₅₀ was 2.3 (2.1-2.6) mg/L.	53 FR 28909; 8/1/88, OTS0526811
3,4-Dichlorobenzotrifluoride	328-84-7	EEATOX Acute algae toxicity	40 CFR 797.1050	green alga, <i>Selenastrum capricornutum</i>	96 hr, Static, constant illumination	0.40, 0.62, 1.8, 3.7, 8.6 mg/L (mean, measured)	Not applicable	Cell density was not reduced at any concentration.	OTS0526810
3,4-Dichlorobenzotrifluoride	328-84-7	EEATOX Acute invertebrate toxicity	40 CFR 797.1300	gammarid	96 hr, flow-through	0.52, 0.83, 1.3, 1.9, 2.8 mg/L (mean, measured)	20 (10/replicate)	100% mortality was noted in the high-concentration group; the no-observed effect concentration was 1.3 mg/L. The 96-hour LC ₅₀ was 1.7 (1.3-2.8) mg/L.	53 FR 43267; 10/26/88, OTS526812
3,4-Dichlorobenzotrifluoride	328-84-7	EECLIF Fish early life stage toxicity	40 CFR 797.1600	Rainbow trout	89 days (60 days post-hatch), flow-through	0.034, 0.068, 0.13, 0.25, 0.51 mg/L (mean, measured)	Not specified	No effects were noted on mean embryo viability, survival, or hatchability. No effects were seen on larval survival or mean wet weight. Larval length was decreased at 0.25 mg/L and higher, and larval weight was reduced at the high concentration. The Maximum Acceptable Toxicant Concentration (MATC) was >0.13 and <0.25 mg/L (geometric mean MATC = 0.18 mg/L).	53 FR 51134; 12/20/88, OTS0526813
3,4-Dichlorobenzotrifluoride	328-84-7	EFBDEG Ready biodegradation; closed bottle	Non-TSCA Protocol/Guideline (docket OPTS-42089)	Soil micro-organisms	28 days, closed bottle, incubation at 20 ± 1 °C in dark	2, 5 mg/L	Not applicable	DCBTF concentrations throughout the study ranged from 0.15-0.18 mg/L and 0.31-0.39 mg/L for the 2 and 5 mg/L nominal concentrations, respectively. Degradation was not observed under these conditions.	OTS0526810